Determination of Public Land (Rangeland) Health for 64071 GEORGE PRICE

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on the assessments, it is my determination that the public land within the George Price allotment #64071 meets the Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ T. R. KREAGER

08/04/2004

Assistant Field Manager

Date

Standards of Public Land Health Evaluation of 64071 GEORGE PRICE Allotment [06/30/2004]

The Roswell Field Office conducted rangeland health assessments at one study site within the George Price Allotment #64071. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area	UPLAND			BIOTIC			RIPARIAN		
or Assessment Area	Meets	1		Meets	an		Meets	Monitor an Indicator	Does Not Meet
64071-IDSU- A163	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the public land on the George Price allotment #64071. Ten (10) of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on one location were utilized to assess the rangeland health of the public land within the allotment. This allotment is in the "C" (custodial) category due to the small amount of public land present.

The recent dry conditions have had an impact on this allotment and the surrounding area. The early spring precipitation events in 2004 have resulted in favorable conditions on this site. This ecological site classifies as an SD-3 shallow with some loamy inclusions. swales and draw bottoms. The soil phase is a Lozier-Tencee complex occuring in the west-central part of the survey area on low, limestone and indurated caliche hills on 0-9 percent slopes. Also included is Atoka, Upton, Reakor and Pecos soil. Some rocky outcrops exist upslope from the site. The 80 acres/36 hectares of public land is adjacent to the west allotment boundary fence and is situated at the 1/4 corner of sections 13 & 14.

A majority of indicators rated in the None to Slight to Moderate category. Rock cover and bareground were both estimated at 30 percent each. Bareground falls within the expected range and the rock cover is consistent with the ESD. There are some gullies present but these are naturally occuring and not very active. This indicator rates Slight to Moderate. Litter movement rates as Moderate as this hydrologic attribute shows signs of water flow causing litter displacement and deposition against obstructions and in depressional areas. The plants present include burrograss (Scleropogon brevifolius), tobosa (Pleuraphis mutica), cholla (Opuntia spinosa), croton (Croton spp.) and tridens (Tridens spp.). There is an obvious absence of gramas (Bouteloua spp.) and dropseed

(Sporobolus spp.). The structural/functional groups indicator therefore rates at Moderate with a moderate reduction in species. The litter amount indicator rates at None to Slight as the amount present at 40% far exceeds the ESD of 5-8 percent. Annual production rates at Moderate with an approximate estimate of 350 lbs/ac or kg/ha. The swale bottom, where water has settled is where most of the production exists with tobosa and burrograss on the upland. A fair amount of physical crusting adequate for site protection can possibly weather the upcoming dry arid conditions. A herd of pronghorn (Antilocapra americana) was observed at the time of the field assessment, traversing the hilltops. The cover and vegetation also lends itself to muledeer (Odocoileus hemionus) habitat.

Hydrology - Pasture IDSU - The litter amount rated in the moderate category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the plant growth which decreases the amount of litter that is produced. All other indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary alluvial deposits and limestone of the San Andres Formation outcrop in the area.

Wildlife/Biotic - Evaluation of the intergrity of the biotic community considered several indicators as attribute indices for the area of interest. Biotic factors are interrelated with several other indicators, including soil/site stability, hydrologic function, and vegetation. Several indicators are singularly biotic and address the vegetation aspect of the ecological site, such as Functional/Structural Groups and Plant Mortality and Decadence, as described above. In addition to the standard worksheet biotic factors, four specific wildlife indicators are included in the biotic evaluation.

Specifically, there were two biotic indicators that rated in the moderate category for this allotment. Annual production and Functional/Strucutral Groups. This is a result of long-term drought within the area and is below what is expected. These indicators will rebound over time with normal climatic conditions and proper grazing management in accordance with production levels.

It is the professional opinion of the Assessment Team that the public land within the George Price allotment #64071, meets the Upland and Biotic standards. There are no Riparian issues present, therefore this standard was not addressed. See site notes and recommendations for further information regarding this assessment.

Recommendations:

RFOs	Upland a	and Biotic Standa	rd Ass	essment S	ummary V	Vorksh	eet	
		SITE 6407	71-IDS	U-A163				
Lagal Land Lage		SWNW 13 0140S 0220E Meridian 23		Acreage		80	80	
Ecosite		042CY025NM SHALLOW SD-3		Photo Taken		Y		
Watershed		1 13060009040 FELIX						
Observers		NAVARRO/MCGEE		Observation Date		e 06/30/2	06/30/2004	
County So	il Survey	NM666 CHAVES S	OUTH	Soil Var/Taxad		d		
Soil I	Map Unit	Lt		Soil	Гахоп Nam	LOZIE	R	
Texture Class		NM666 GRV-L		Soil Phase		Δ -	LOZIER- TENCEE	
Texture	Modifier	NM666 COBBLY L	OAM					
Observed Avg Annual Precipitation				Observed A Season	vg Growing Precipitation			
NOAA Annual Precipitation			8.1		AA Growing Precipitation	-	5.98	
NOAA Avg Annual Precipitation				NOAA Avg Growing Season Precipitation		-	u u u u	
Disturbances and Animal Use:								
Part 2. Attı	ibutes an	d Indicators						
				ure from Eco otion/Ecolog			5	
Attribute	Indicators		Extren	Moderat e to Extreme		Slight to Moderat e	None to Slight	
SH	Rills						X	
Comments:								
SH	Water Flow Patterns					X		
Comments :								
SH	Pedestals and/or Terracettes					X		
Comments :								
SH	Bare Gro	und				X		

Comments:	Now estimated at 30%. Other	30% is ro	ck and gra	vel cover.			
SH	Gullies				X		
Comments :	Naturally occuring.						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X	
Comments :							
Н	Litter Movement			X			
Comments :	Litter is displaced and up agai	nst obstru	ctions due	to water f	low.		
SHB	Soil Surface Resistance to Erosion					X	
Comments:	Virtually no erosion exists using the soil site stability test.						
SHB	Soil Surface Loss or Degradation				X		
Comments :	Some horizon lost because of the rock exposed.						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X		
Comments :	Only minor effect.		,				
SHB	Compaction Layer					X	
Comments :							
В	Functional/Structural Groups			X			
Comments:	Most of the species are on site missing though.	with a fe	w exceptio	ons. The gr	ama grasse	es are	
В	Plant Mortality/Decadence					X	
Comments :							
НВ	Litter Amount					X	
Comments :	More litter exists than the ESI	calls for					
В	Annual Production			X			

Comments :	The current estimate is approximately 3/4 of the potential.							
В	Invasive Plants				X			
Comments :	Cholla, acacia and snakeweed can be observed but less than scattered.							
В	Reproductive Capability of Perennial Plants					X		
Comments :	Seed head and tiller formation	is ok.						
S	Physical/Chemical/Biologica l Crusts				X			
Comments :	Largely intact with very liittle breaks in continuity.							
В	Wildlife Habitat				X			
Comments :	Pronghorn and muledeer habitat.							
В	Wildlife Populations				X			
Comments :	Pronghorn observed.							
В	Special Status Species Habitat					X		
Comments :	None known to occur.							
В	Special Status Species Populations					X		
Comments :	None known to occur.							
Part 3. Sun	nmary							
attributes be	r Summary - Each of the indica elow. An indicator is placed in Standard Attributes.							
Standard Attribute		Extrem e	Moderat e to Extreme	Moderat e	Slight to Moderat e	None to Slight		
S	Soil	0	0	0	6	4		
Н	Hydrologic	0	0	1	6	4		
В	Biotic	0	0	2	4	7		

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meet
Soil		0	0	10
Hydrologic		0	1	10
Biotic		0	2	11

Site Notes: This non-permanent location was located and gps'd. A small herd of pronghorn was observed traversing the hillsides. Swales exists as part of the site with tobosa, burrograss, croton and thistle growing. The 1/4 corner of section 13 and 14 is the middle of the public land parcel on this allotment along the fenceline.

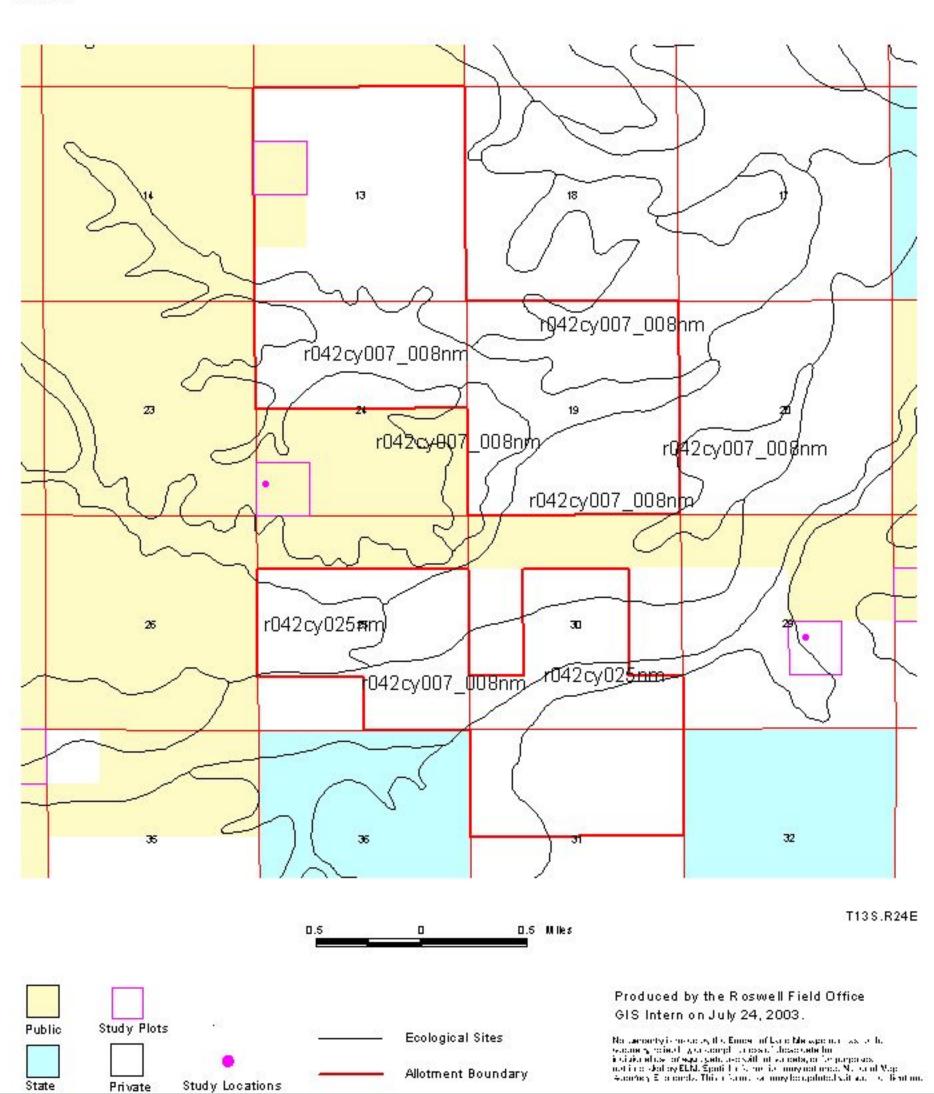


Rangeland Health Assessment Ecological Sites



Allotment 64071

T14.R22E



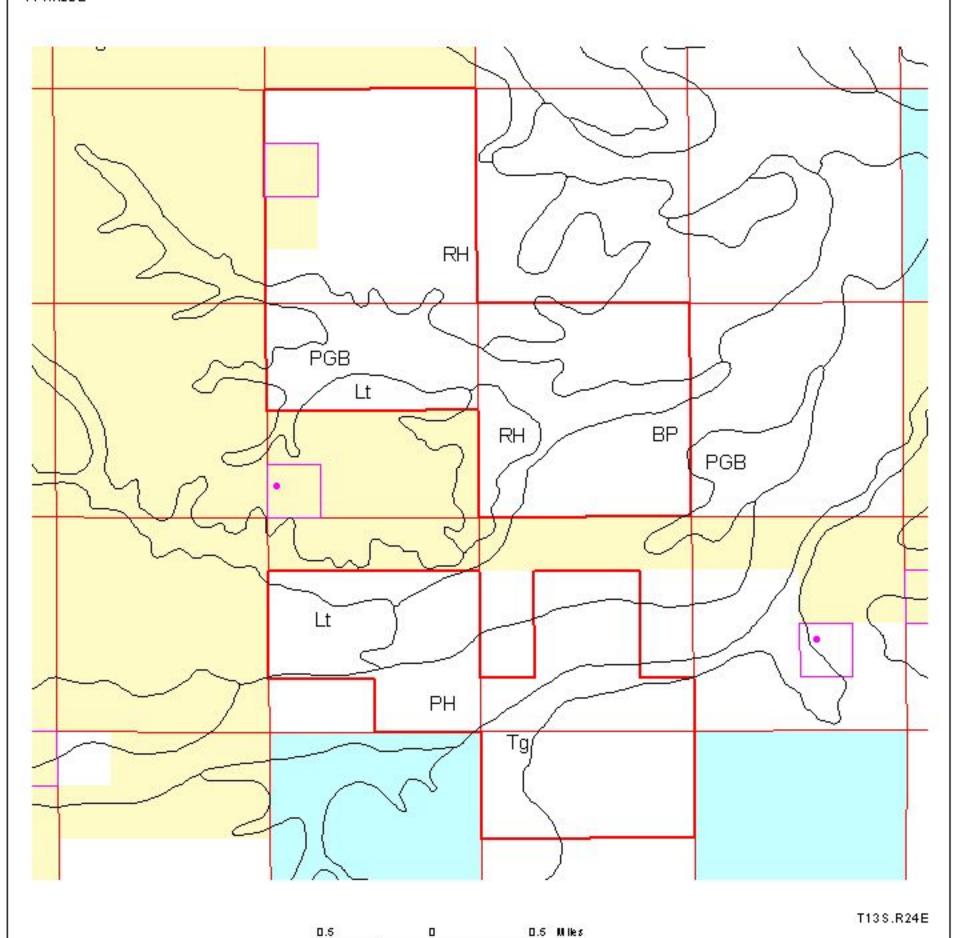


Rangeland Health Assessment Soil Mapping Units



Allotment 64071

T14.R22E



Public Study Plots — Soil Mapping Units

Allotment Boundary

State Private Study Locations

Produced by the Roswell Field Office GIS Intern on July 24, 2003.

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